

## CLASSIFICATION

CENTRAL INTELLIGENCE AGENCY

## INFORMATION REPORT

## REPORT

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                 for Medicine and Biology

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1. In July 1955, Dr Herbert Puppe of the biophysical department of the Berlin-Buch Institute for Medicine and Biology of the German Academy of Sciences was in search of an engineering office to be invited for cooperation on the following problem:  
Radiations emitted by isotopes contained in certain substances, including plants and gases, are to be examined along the following lines:
  - a. Frequency of radiation pulses evaluated at different stages.
  - b. Determination of amplitude and width of transition interval of the radiation pulses.
2. The development of a measuring method which is in keeping with the standards developed in high-frequency and electronics techniques was requested. The development of a wide-band chain-amplifier for frequencies of up to 100 megacycles with multiple measuring ranges, as well as the development of electronic counters for registration and classification of pulse frequencies of up to 10 megacycles was to be attempted.
3. At a first informatory conference held in July 1955 by representatives of the Berlin-Buch biophysical department and representatives of the Berlin Wissenschaftlich-Technisches Bureau fuer Geratebau (WTGB) (Scientific-Technical Bureau for Equipment Construction), the development of appropriate measuring instruments was discussed. The representatives of the biophysical department stated that the field in question was a key point of GDR research and that ample funds would be made available. Subsequently the representatives of WTGB studied pertinent literature in order to obtain a clear picture of the suggested field of research, of the technical problems involved, and of the funds required. They arrived at the conclusion that the problems posed by the biophysical department were beyond the technical standards in the GDR. It was suggested that some one draw up a preliminary study outlining the standards reached by Western research. This study will constitute the basis for all further work in this field.

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